

soltec | More light,
more life.

Bioclimatic Pergola
Agava™



OUTDOOR LIVING

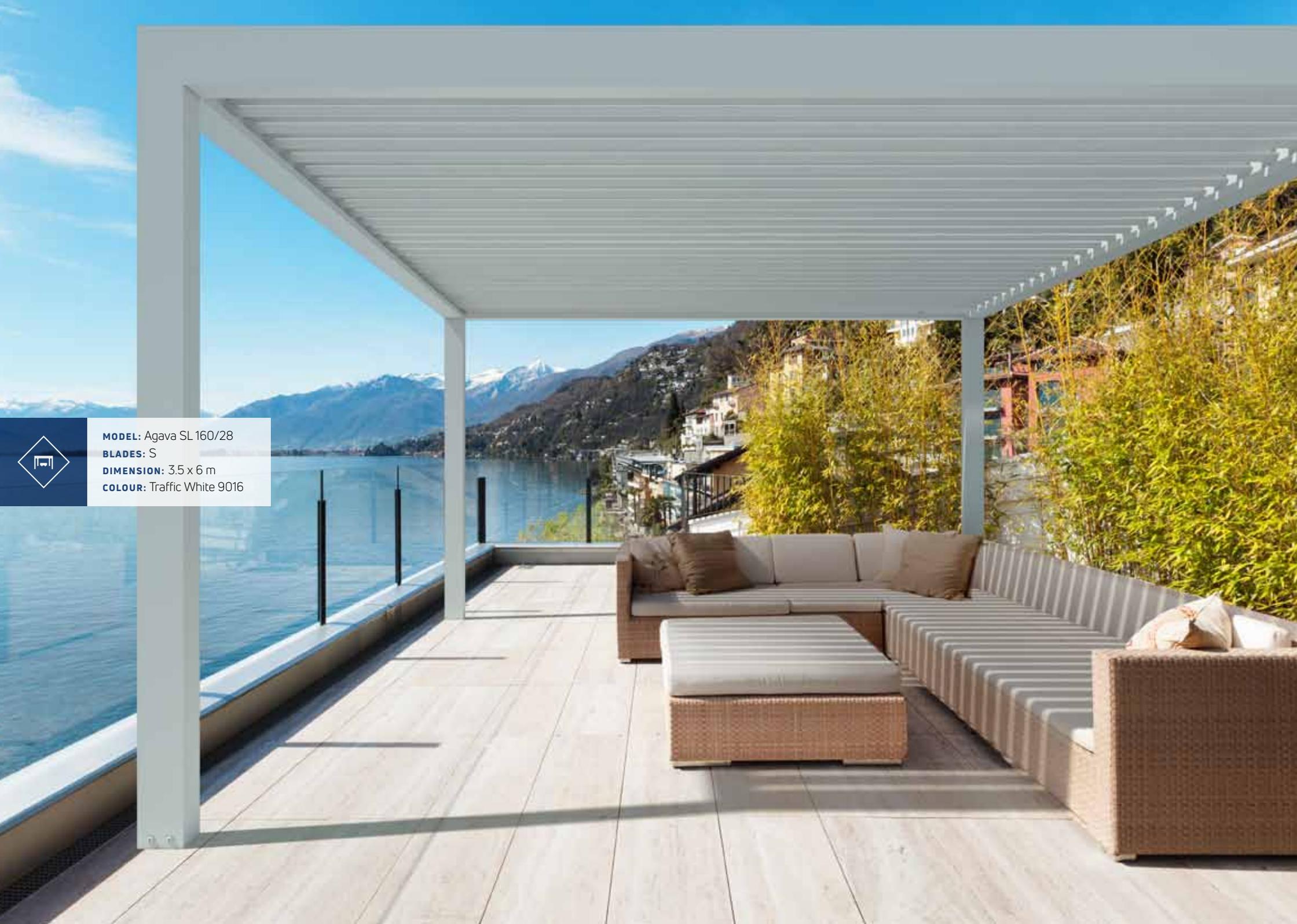


MODEL: Agava SL 160/28

BLADES: S

DIMENSION: 3.5 x 6 m

COLOUR: Traffic White 9016



Index

	Agava SL	Agava XL	
Advantages of Pergola Agava	Configurations	Configurations	Custom-made Solutions
Comparison of SL & XL	Dimensions and Characteristics	Dimensions and Characteristics	Opening Direction of Blades
		Performance	Options
		Use of Steel	Standards and Warranty
			Contact
5	17	21	27
14	19	23	29
		24	31
		25	35
			36



MODEL: Agava SL 170/36
BLADES: L
DIMENSION: 4.5 x 6.5 m
COLOUR: Anthracite Grey 7016



The bioclimatic pergola is a resistant shelter that allows you to spend wonderful moments outdoors.

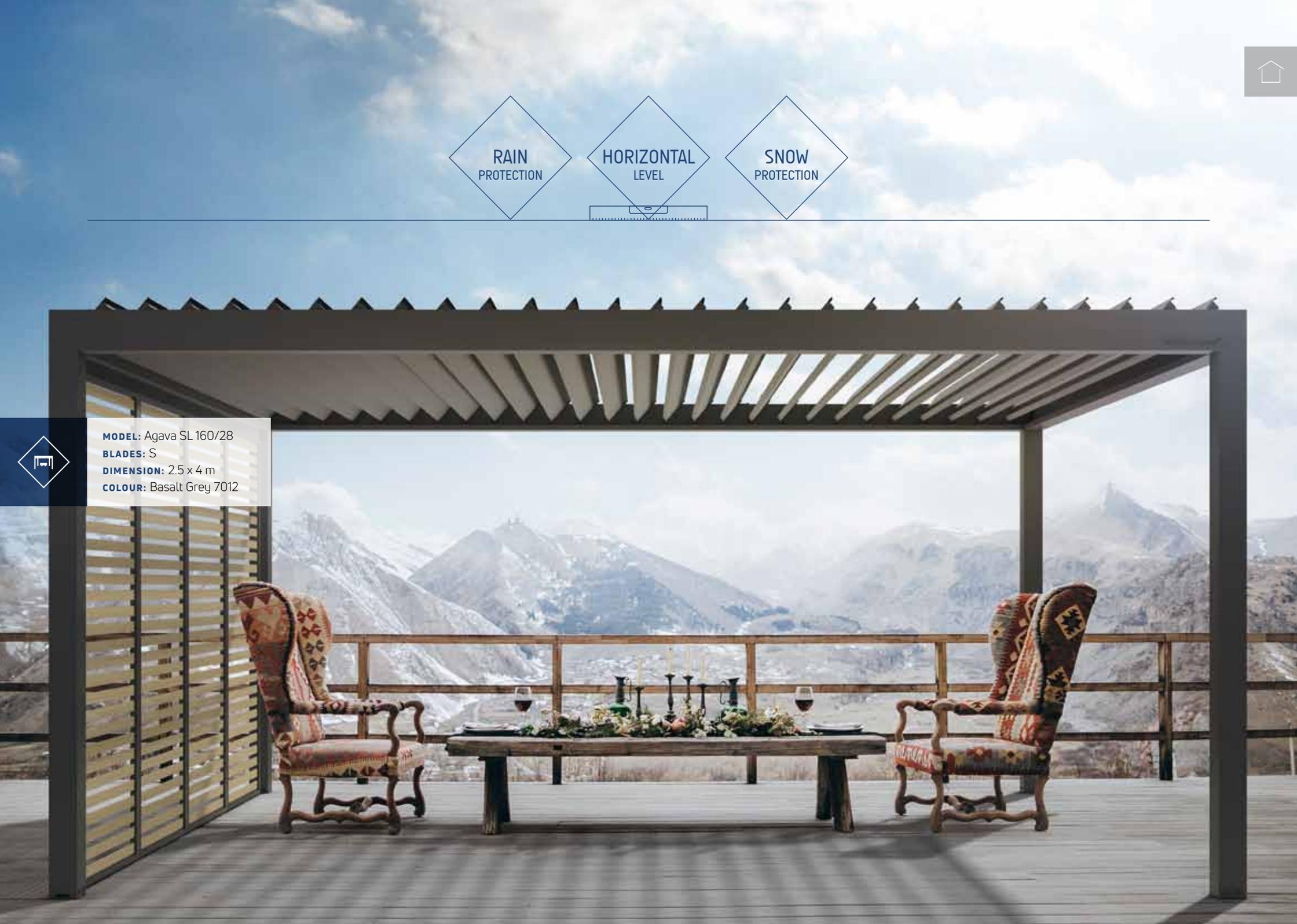
You want to be protected from the sun or to take advantage of it?

Simply adapt
Pergola Agava
to meet your
needs.



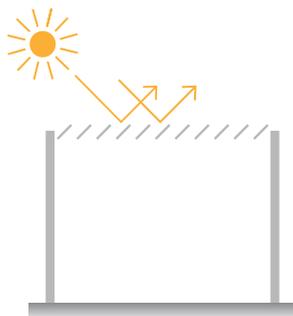


MODEL: Agava SL 160/28
BLADES: S
DIMENSION: 2,5 x 4 m
COLOUR: Basalt Grey 7012

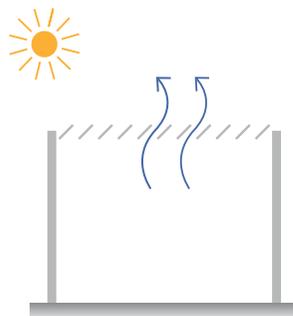


Regulate the temperature, control sunlight,

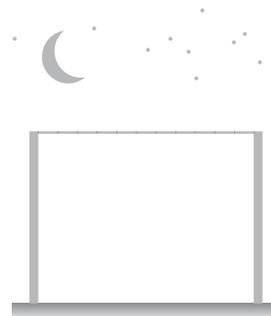
protect yourself from **rain*** & **snow***, extend the outdoor season.



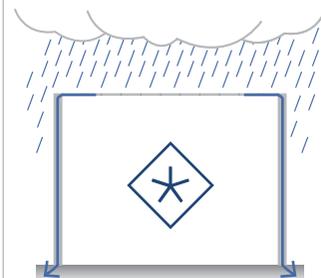
Protection from the sun



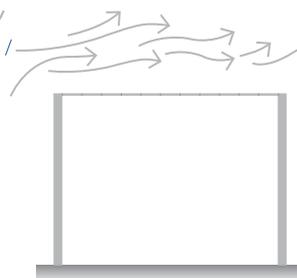
Ventilation



Regulation of temperature



Protection from rain, excess water channeling



Stability in wind

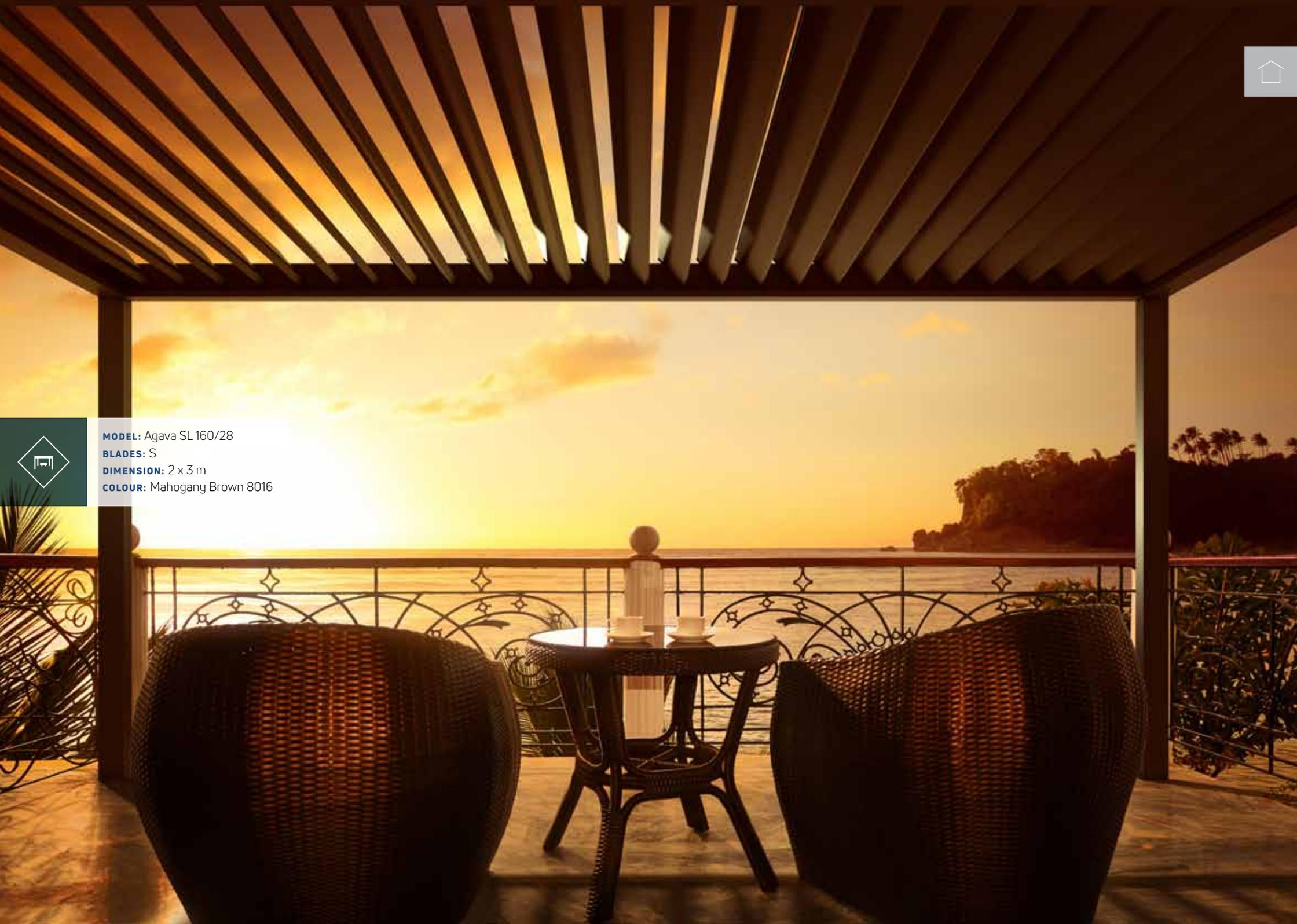


Protection from snow





MODEL: Agava SL 160/28
BLADES: S
DIMENSION: 2 x 3 m
COLOUR: Mahogany Brown 8016



On your terrace, in your garden, on the edge of your swimming pool, as an outdoor shelter ...

Pergola Agava is the added value of your home.



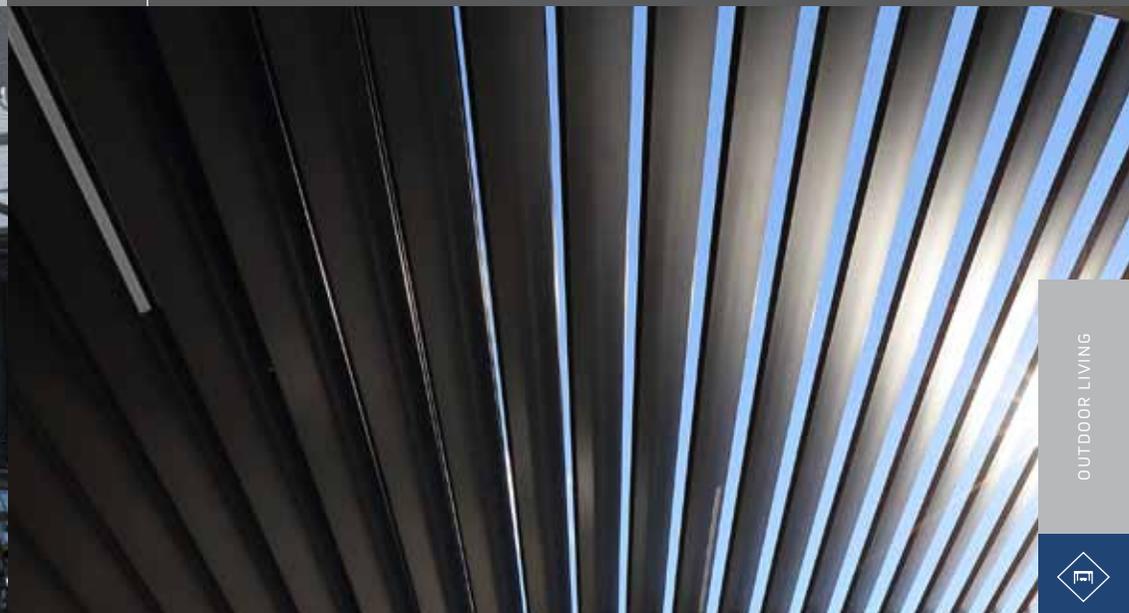
Aesthetic, discrete & resistant,

Pergola Agava brings a contemporary touch to your exterior. Aluminum or steel, it is modular and adapts to the constraints of your space to guarantee you the greatest comfort in your new living space.





MODEL: Agava XL 200/36
BLADES: L
DIMENSION: 4.5 x 8 m
COLOUR: Black Grey 7021



Custom-made

Agava pergolas adapt to all the configurations of your space:

CLIMATE

DIMENSIONS

ATYPICAL
TERRAIN

Exclusive

Pergola Agava offers you the **biggest coverage solution** on the market.

UP TO
78m²

of surface

RANGE
12m

without
intermediate
posts

OUTDOOR LIVING



soltec

Bioclimatic Pergola Agava



MODEL: Agava XL 200/36
BLADES: L
DIMENSION: 6 x 8 m
COLOUR STRUCTURE: Anthracite Grey 7016
COLOUR BLADES: Light Ivory 1015





Design & Innovation

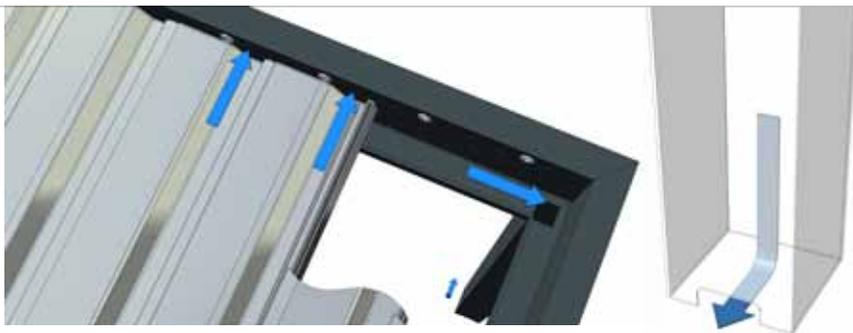
Our design office is constantly on the lookout for new products and improvements in order to offer you perfectly suited products at the right price. Our attention to detail makes it possible for us to create pergolas with careful finishes:



Invisible fixings



LED lights incorporated in the blades



Evacuation of water concealed in the structure

Comfort

Personalize your pergola by choosing among many options integrated in the structure to optimize your comfort:



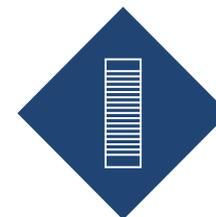
Lighting



Heaters



Speakers



Sliding Panels





Construction

In aluminium or steel, according to their dimensions, Agava pergolas are specially designed for high resistance to wear and to weather, using a robust structure and blades.



Agava SL

light and elegant,
most suitable for
home use



structure material	aluminium
aluminium blade	S or L
maximum size	4.5 x 7 m
max. surface coverage without intermediate posts	31 m²
profile dimensions (mm)	120/160 or 120/170
blade without intermediate crosspiece	4.5 m
bearing without intermediate post	7 m

! Several modules can be joined for larger dimensions. Pergola has to be installed inclined to allow proper water evacuation (at least 1 cm).

Agava XL

strong and robust,
withstands great
forces and large
spans



structure material	steel
aluminium blade	L or XL
maximum size	6.5 x 12 m
max. surface coverage without intermediate posts	78 m²
profile dimensions (mm)	220/120 or 260/180
blade without intermediate crosspiece	6 m
bearing without intermediate post	12 m
blade resistance up to	300 kg / m²

! Several modules can be joined for larger dimensions. Pergola has to be installed inclined to allow proper water evacuation (at least 2 cm).





Agava SL

Light and elegant,
most suitable for
home use

Pergola Agava SL is a modern outdoor living area designed to fit perfectly into the environment.

It can provide exceptional quality of life in the open air with a high degree of visual and thermal comfort.

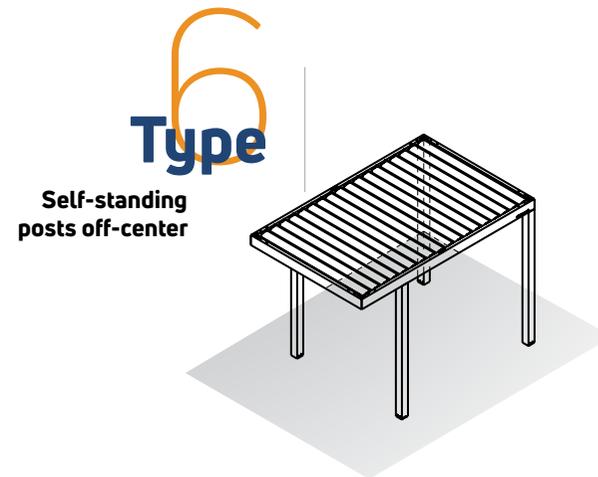
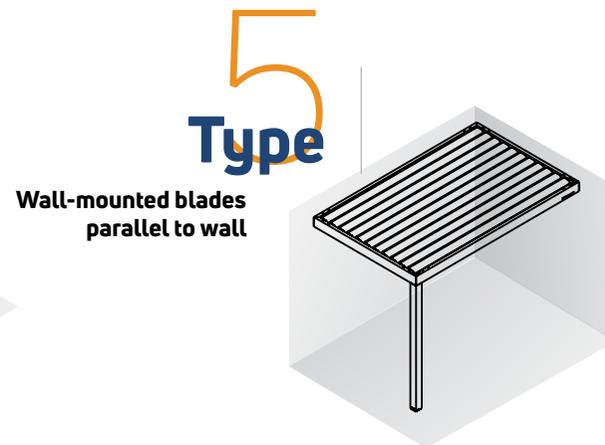
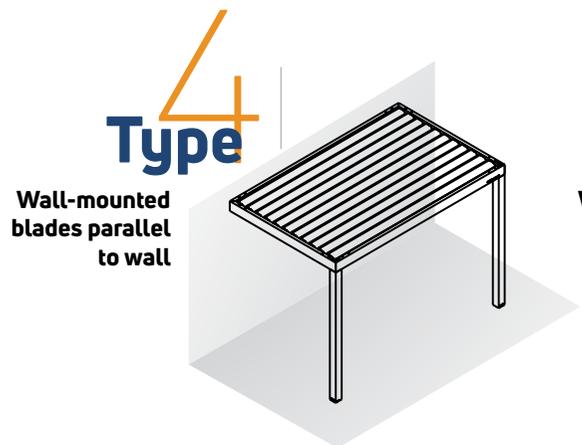
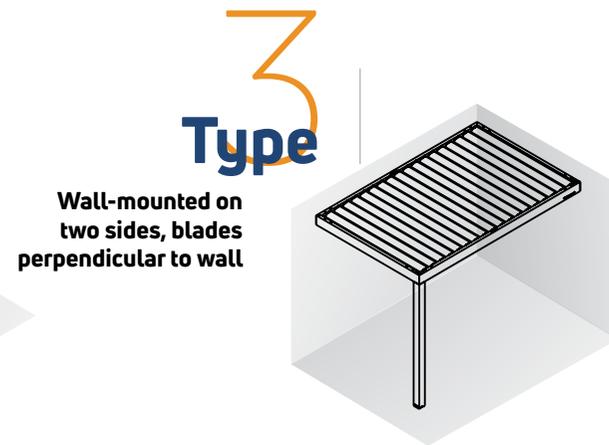
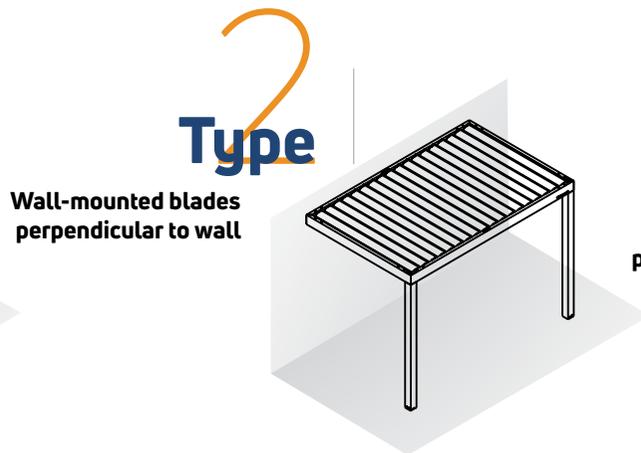
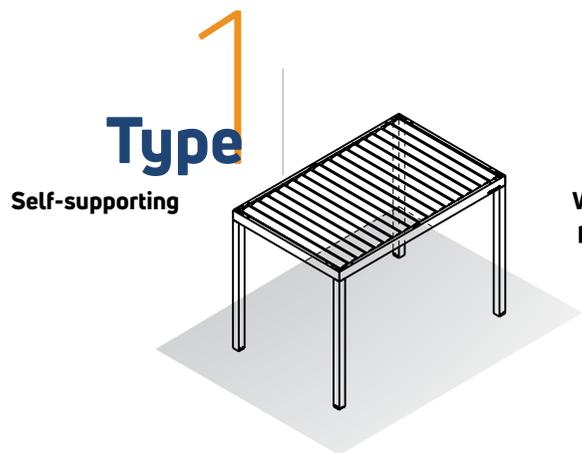
It can be a terrace covering or a stand-alone facility in the back yard.

The rotating blades **protect perfectly against overheating**, all the while providing beneficial ventilation. The blades are designed to **channel excess water through support columns**. The quality construction is **made in accordance with Eurocode standards**. It provides **a high degree of resistance to strong wind, and of rain & snow protection**.





Configurations





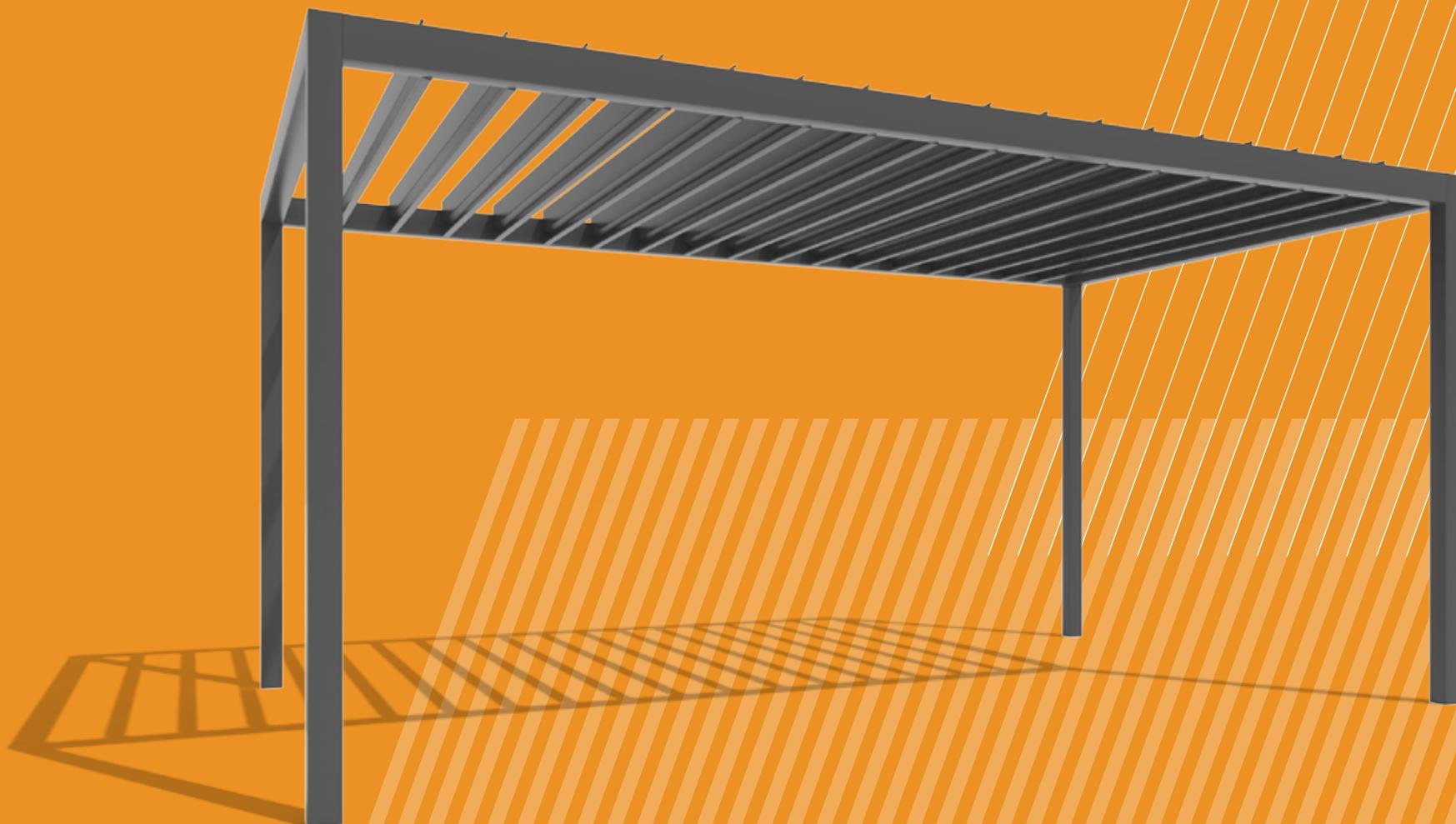
Agava SL

OUTDOOR LIVING



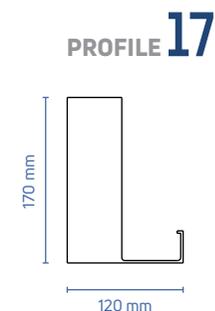
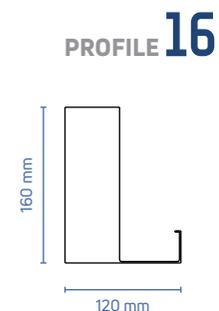
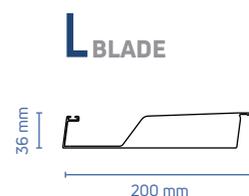
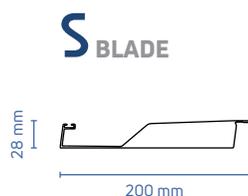
soltec

Biodynamic Pergola Agava

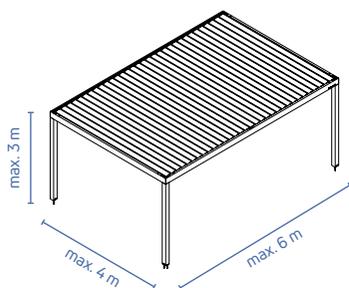




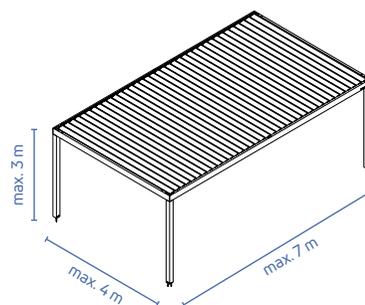
Dimensions & Characteristics



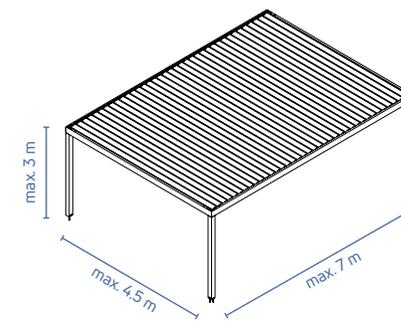
4x6m



4x7m



4.5x7m



Agava SL 160/28

PROFILE 16 + S BLADE	
Blades S	200/28
Profile	160/120
Posts	120/120
Max dimension 1 module	4 x 6 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
Foot type (page xy)	Internal / external
Water exit (page xy)	Standard / option
N° of water exits	2
Motorisation	1 motor

Agava SL 170/28

PROFILE 17 + S BLADE	
Blades S	200/28
Profile	170/120
Posts	120/120
Max dimension 1 module	4 x 7 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
Foot type (page xy)	Internal / external
Water exit (page xy)	Standard / option
N° of water exits	2
Motorisation	1 motor / 2 motors

Agava SL 170/36

PROFILE 17 + L BLADE	
Blades L	200/36
Profile	170/120
Posts	120/120
Max dimension 1 module	4.5 x 7 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
Foot type (page xy)	Internal / external
Water exit (page xy)	Standard / option
N° of water exits	2
Motorisation	1 motor / 2 motors





Agava XL

Strong and robust,
withstands great
forces and large
spans

3x

STRONGER

2.9x

HEAVIER

3x

STIFFER

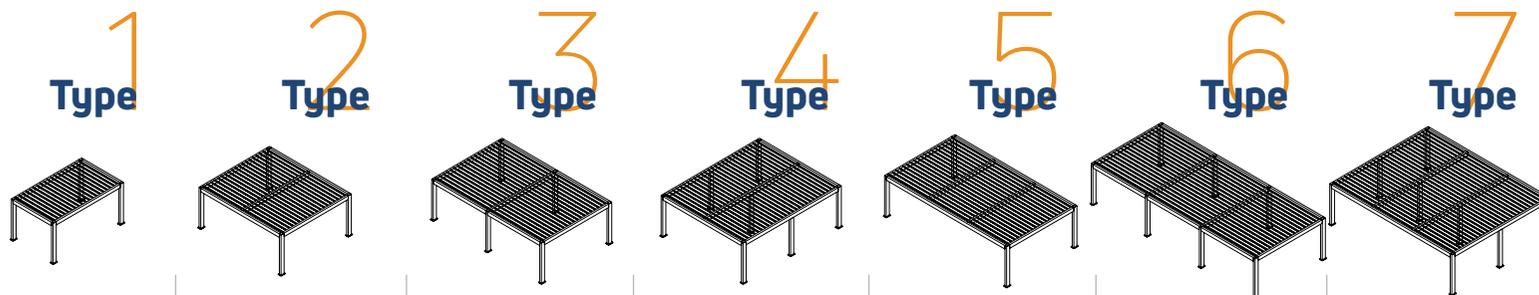
The Bioclimatic Pergola Agava XL is the perfect solution for **covering very large areas, such as restaurants, exhibition spaces, terraces in front of hotels, kindergarten playgrounds, car parks, and many other** large areas, where you wish to offer maximum comfort of outdoor living.

With the use of **steel profiles** in the XL Pergola structure you gain more freedom in designing the perfect solution for your space. You can have **greater spans, less visible columns, bigger overhangs** and a more elegant and sleek look. Agava XL can also include a stronger lamella – XL blade, which is capable of bridging a span up to 6.5 metres. The Agava XL can be equipped with the same quality add-ons that you are used to with the Agava SL, and more.





Configurations



	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7
Agava XL 200/36	4.5 x 8 m	6 x 8 m	9 x 9 m	9 x 12 m	9 x 4 m	13 x 8 m	12 x 10 m
Agava XL 220/36	4.5 x 10 m	6 x 9 m	9 x 10 m	9 x 15 m	9 x 6 m	13 x 9 m	13 x 10 m
Agava XL 260/36	4.5 x 15 m	6 x 11 m	9 x 13 m	9 x 22 m	9 x 10 m	13 x 13 m	13 x 14 m
Agava XL 220/60	6 x 10 m	10 x 5 m	12 x 8 m	12 x 9 m	11 x 3 m	18 x 8 m	18 x 8 m
Agava XL 260/60	6 x 14 m	8 x 10 m	12 x 11 m	12 x 15 m	15 x 3 m	18 x 10 m	18 x 10 m





Agava XL

High strength

Higher spans, less deflection, smaller profiles.

Uniformity

Properties of steel do not change through time.

Elasticity

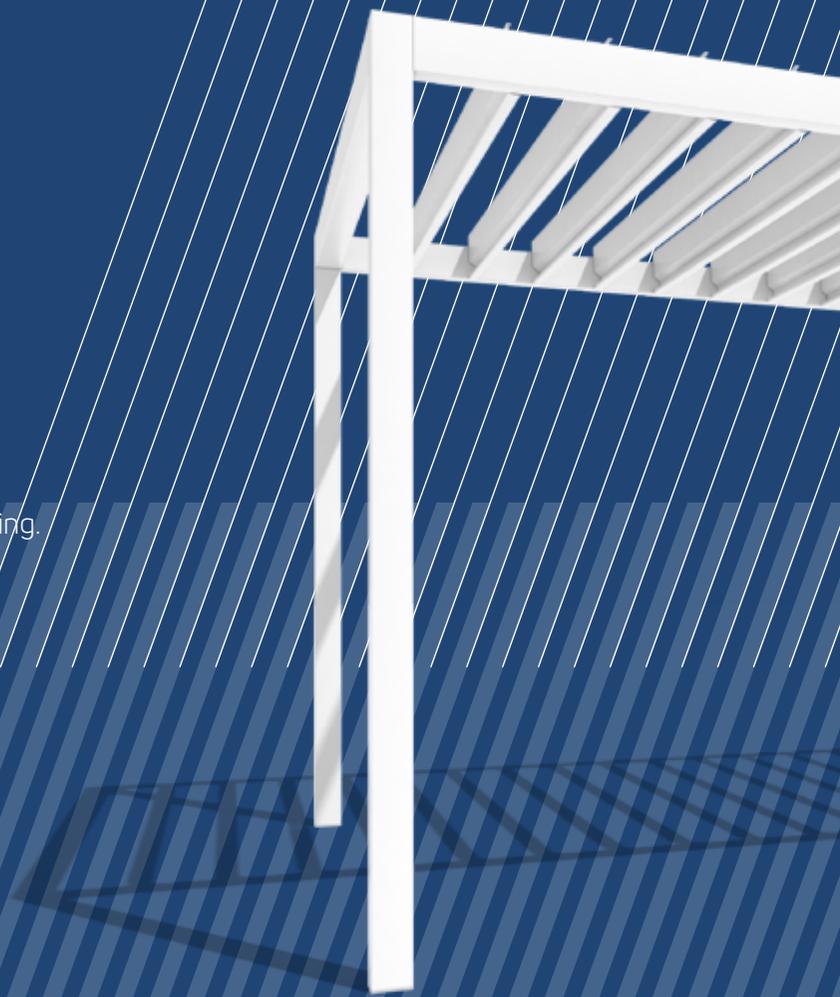
Steel can withstand extensive deformation without breaking.

Toughness

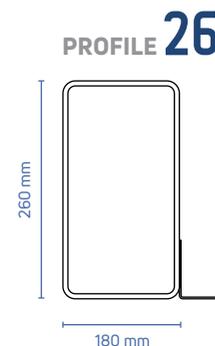
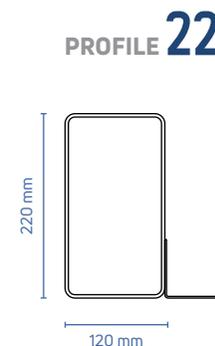
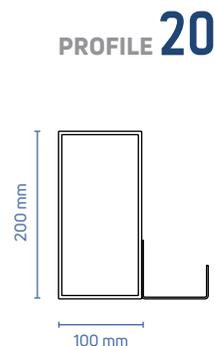
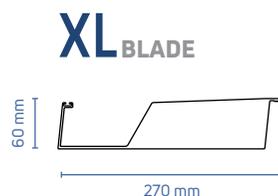
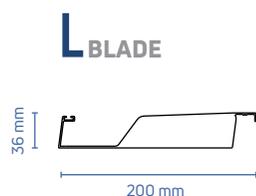
Steel has both strength and ductility.

Sustainability

Can be most easily recycled.



Dimensions & Characteristics



5x10m

Agava XL 200/36

PROFILE 20 + L BLADE	
Blades L	200/36
Profile + posts	100/200
Max dimension 1 module	4.5 x 8 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
N° of water exits	2
Motorisation	1/2 motors

5x12m

Agava XL 220/36

PROFILE 22 + L BLADE	
Blades L	200/36
Profile + posts	220/120
Max dimension 1 module	4.5 x 10 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
N° of water exits	2
Motorisation	1/2 motors

5x15m

Agava XL 260/36

PROFILE 26 + L BLADE	
Blades L	200/36
Profile + posts	260/180
Max dimension 1 module	4.5 x 15 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
N° of water exits	2
Motorisation	1/2/3 motors

6.5x11m

Agava XL 220/60

PROFILE 22 + XL BLADE	
Blades XL	270/60
Profile + posts	220/120
Max dimension 1 module	6 x 10 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
N° of water exits	2
Motorisation	1/2 motors

5x10m

Agava XL 260/60

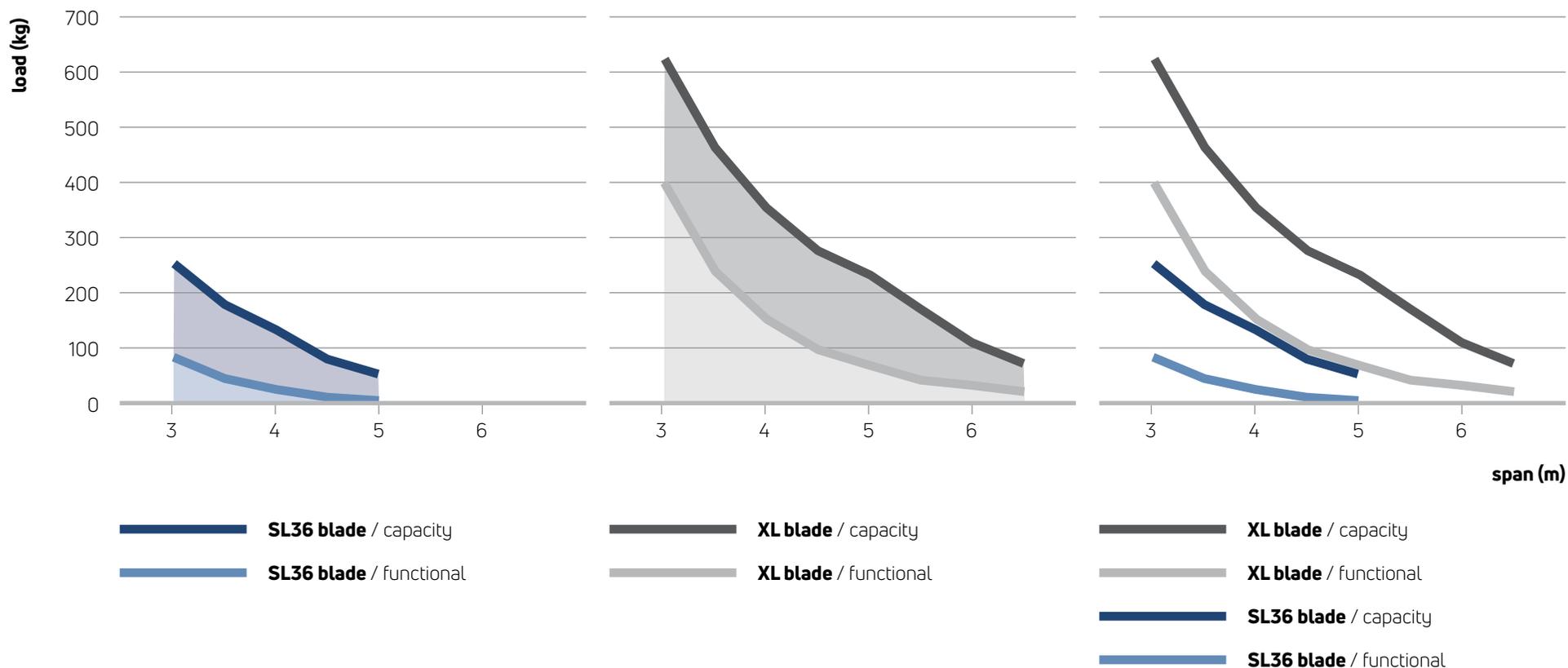
PROFILE 20 + XL BLADE	
Blades XL	270/60
Profile + posts	260/180
Max dimension 1 module	6 x 14 m
Installation - 4 posts	Self-standing
Installation - up to 3 posts	Wall mounting
N° of water exits	2
Motorisation	1/2/3 motors





Performance

POSSIBLE BLADE SPAN (m)

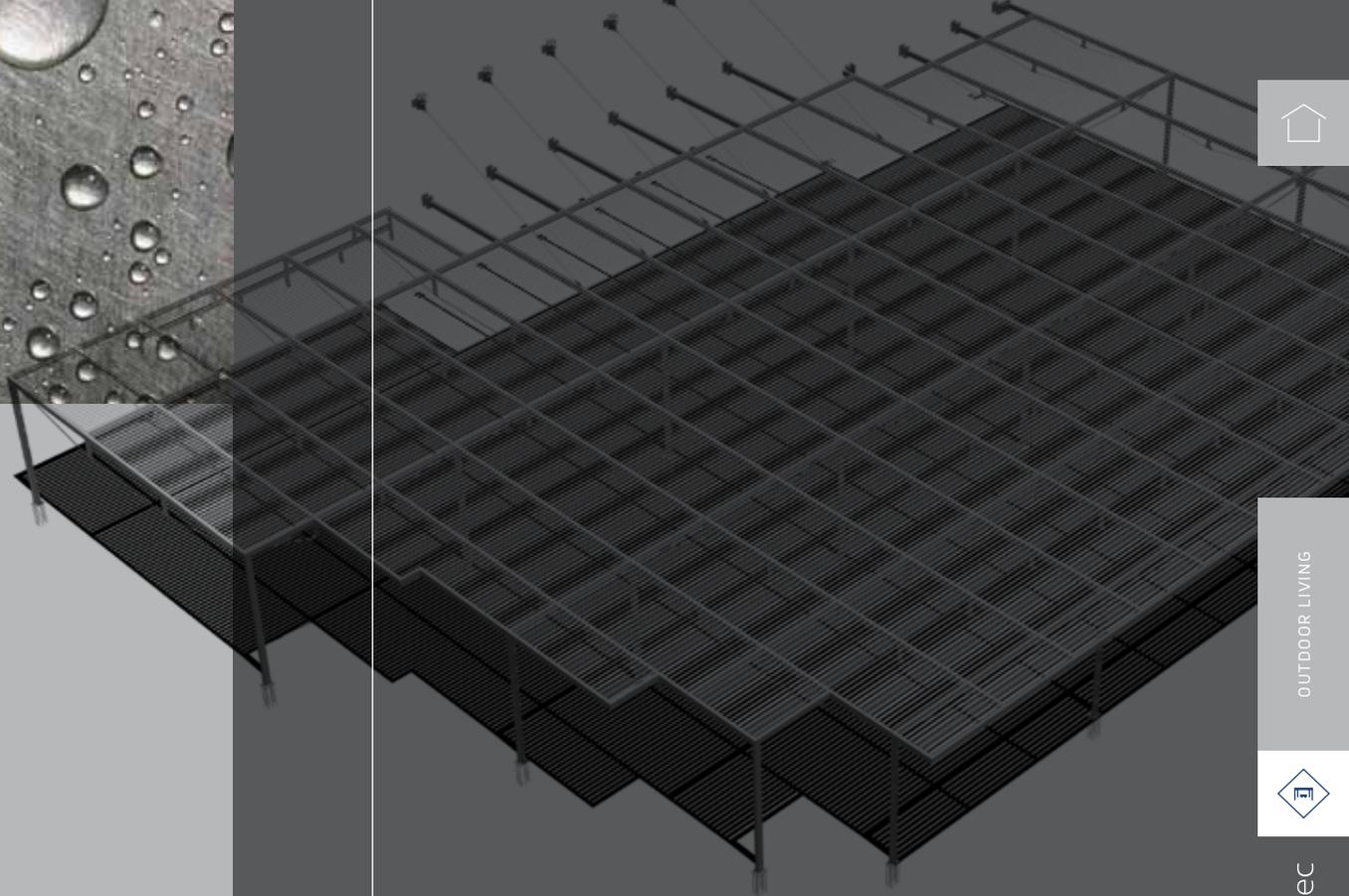


The Maximum Possible Load chart is intended for user instructions providing information as with regards to the maximum static load capacity of the structure for the specific dimensions of the rotating blades. The two lines represent two limit load levels. The lower as the Functional level (operation is not affected) and the higher as the Capacity level (80% material capacity reached - operation can be affected). In case of snow and for any other possible loads, it is recommended to remove any elements from the structure before operating. Customers should regularly check and remove objects that might affect the operation of the structure or reduce its water discharge capacity. It is advisable to take at least 30 kg of additional load into consideration to take into account the specific environmental loads.



Corrosion protection of XL structure

The Agava XL steel structure has to be treated differently than the aluminium profiles. Steel has a different structure and surface than aluminium. To protect the Agava XL steel structure we use a high-quality duplex system with approx. 80 µm of hot-dip galvanization, 50 µm of epoxy primer and 60 µm of polyurethane coating. The corrosion protection procedure is applied to the structure according to the standards EN ISO 12944- (1-8). With the duplex protection system we gain greater chemical resistance, surface resistance, and the highest overall life expectancy of the protection system, for decades to come. Minimal color variation can occur between aluminium blades and steel frame because of the different technologies of applying protection to the two materials.



Durability

according to EN ISO 12944:



more than 15 years

The used duplex protection system satisfies the highest durability class of C3-H (high – durability of more than 15 years*).

* The durability class does not affect the warranty





MODEL: Agava SL 170/36
BLADES: SL
DIMENSION: 3 x 7 m
COLOUR: Anthracite Grey 7016

Custom-made Solutions

Unlimited possibilities tailored to your needs

In cases of large spans, unusual terrain or special demands of the building site, we offer custom-made solutions that are suited to your needs.

Specially designed pergolas offer practically unlimited possibilities, creating unique outdoor spaces that are perfectly suited to all your demands.

Agava XL's strength and capacities are coupled with all the comforts of add-ons, such as sensors, panels, lighting and other accessories.

Our talented team of designers and engineers ensures that we find the perfect solution in even the most challenging projects.





Opening Direction of Blades

A specially designed blade, an integral part of the Pergola Agava, is made from extruded aluminium and patented and patent-protected SI 24401 A.

This watertight roofing blade is the basic structural element. When in a sequential sectional layout, it forms a water tight cover of exterior surfaces, resistant to loads such as wind and snow. The blades rotate and allow opening, thus regulating the balance of shade and sun exposure. This provides us with an excellent exterior living space in all seasons and ensures long-term use.



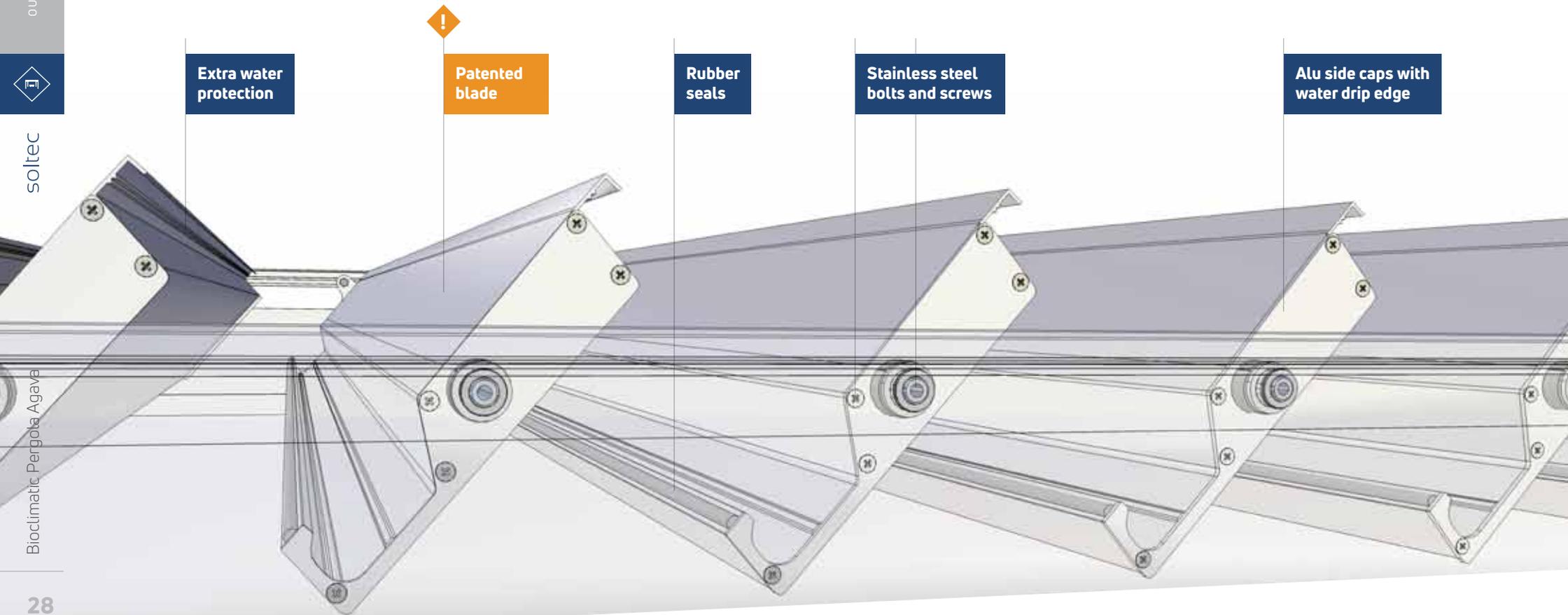
Extra water protection

Patented blade

Rubber seals

Stainless steel bolts and screws

Alu side caps with water drip edge

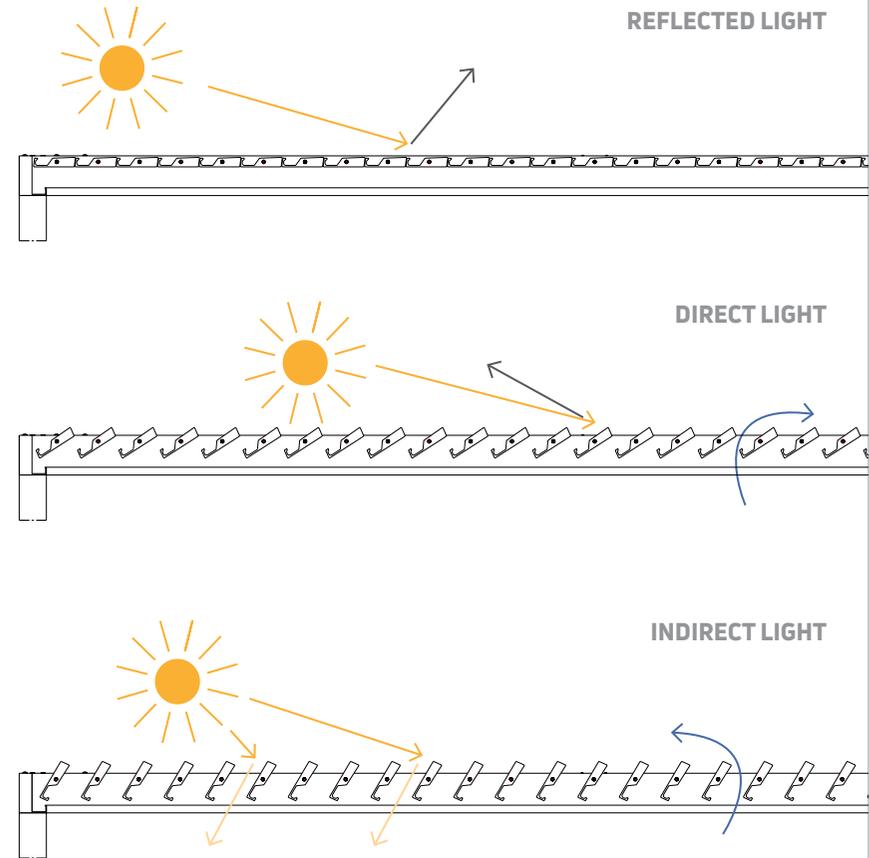
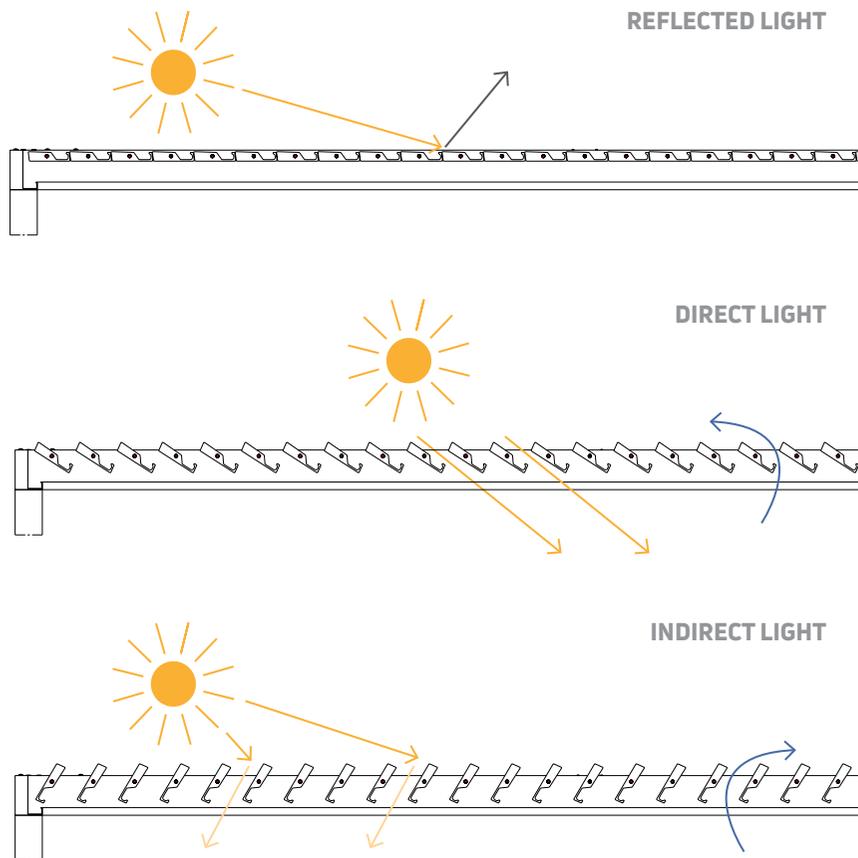




Opening direction



Opening direction





4

1

2

3

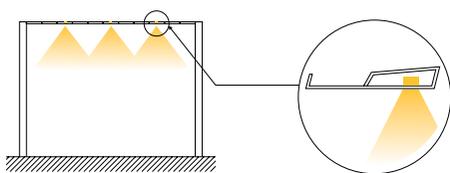
6

MODEL: Agava SL 160/28
BLADES: S
DIMENSION: 4 x 6 m
COLOUR STRUCTURE: Basalt Grey 7012
COLOUR BLADES: Light Ivory 1015



Bioclimatic Pergola Agava

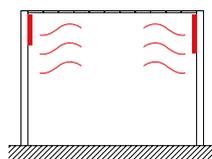
Options



1

Integrated LED lights

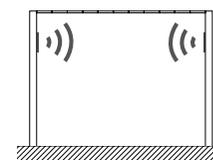
Directly incorporated in the rotating blades, the LED lights are perfectly integrated into your bioclimatic pergola. You can adjust the intensity of the light according to the ambiance you desire for your evening.



2

Heating

Enjoy even the coolest of evenings thanks to our infrared heating elements. Stylish and powerful, they provide a very powerful adjustable heat source.



3

Audio system

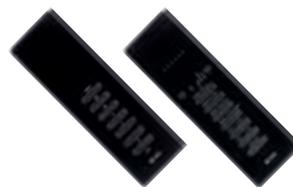
Listen to your music via loudspeakers directly integrated into your pergola, and manage your music remotely thanks to the Bluetooth connection.



4

Sensors

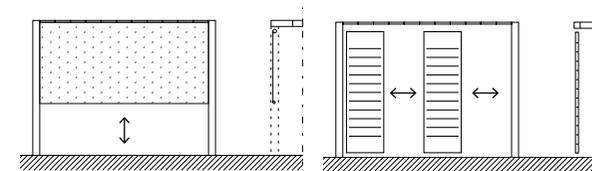
The sensors protect your space by changing the tilt of the blades according to the weather conditions. The blades automatically close in case of rain and open in case of wind.



5

Remote control

With your remote control, manage the orientation of the blades, the position of the blinds, and the luminous intensity. All your equipment can be activated and controlled remotely.



6

Panels, ZIP blinds

Sliding glass, aluminum with wood slats and vertical ZIP roller blinds are an excellent feature to add protection from the elements.



Options

6 Panels, ZIP blinds



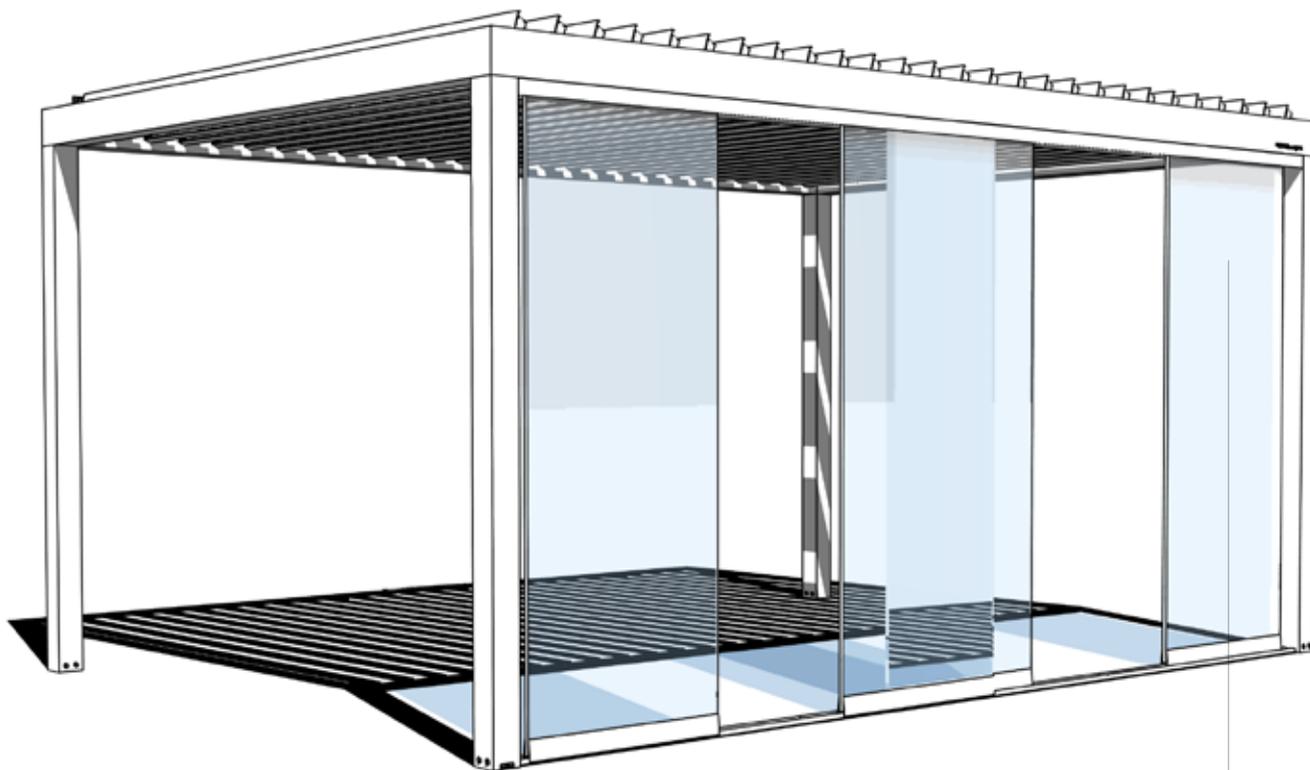
ZIP roller blinds

The blinds offer protection against wind, rain and insects, but also visual protection and shade.

Sliding panels

Aesthetic and functional, sliding panels ensure visual and solar protection. Fixed or movable, position the panels to suit the shade and ventilation desired. Choose wood or aluminium as your material.





Glass panels

Sliding glass panels of a contemporary look and feel offer a solution when you wish to elegantly close your space to protect yourself from the wind, without losing the view.

7

Colours

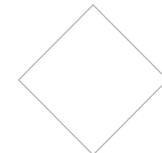
Agava comes in **three standard colours**
(structure and/or blades)



Anthracite Grey
RAL 7016



Aluminium Grey
RAL 9006



Traffic White
RAL 9016

Gloss Level: 30%
Finish: Matt

Customize your Pergola Agava by selecting the colour of your choice from more than 1600 existing RAL colours.*

*subject to additional payment





MODEL: Agava SL
BLADES: S
DIMENSION: 2,5 x 5 m
COLOUR: Anthracite Grey 7016



Made in EU, fully certified

To ensure optimal quality, Pergola Agava complies with the following EN standards:

EN 1990:	Basis of Structural Design
EN 1991:	Actions on structures
EN 1991-1-1:	General actions - Densities, self-weight, imposed loads for buildings
EN 1991-1-3:	General actions - Snow loads
EN 1991-1-4:	General actions - Wind actions
EN 1991-1-5:	General actions - Thermal actions
EN 1993:	Design of steel structures
EN 1998:	Design of structures for earthquake resistance
EN 1999:	Design of aluminium structures
EN 1090:	Execution of steel and aluminium structures
EN 13561:	External blinds and awnings. Performance requirements including safety
EN 60335-1:	Household and similar electrical appliances - Safety - Part 1: General requirements
EN 60335-2-97:	Household and similar electrical appliances. Safety.



Warranty



5-year warranty on the structure of Pergola Agava™



2-year warranty on electronic equipment and components



soltec | More light,
more life.

Soltec is a medium-sized company based in EU in Slovenia, with more than 20 years of tradition in development and production of shading solutions, dynamic facades and balconies. The company is committed to quality – in terms of service as well as the product. Soltec's main goal is to create innovative products and to provide maximum living comfort and energy efficiency.

SOLTEC d.o.o.
Obrtna ulica 9
8257 Dobova
Slovenia, EU

info@soltec.si
www.soltec.si

SLO HQ
+386 7 45 22 126
+386 51 650 850
CH, NL, BE, LUX
+386 40 851 600
CH, DE, AT
+386 31 656 941
F
+33 677 206 348
I, UK, DK, SWE
+386 40 809 881

